

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/060541 A2

(51) International Patent Classification⁷:

G01S

(74) Agent: **MITTLER, Enrico**; Mittler & C. s.r.l., Viale Lombardia, 20, I-20131 Milano (IT).

(21) International Application Number: PCT/EP03/00349

(22) International Filing Date: 15 January 2003 (15.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

MI2002A 000088 18 January 2002 (18.01.2002) IT

(71) Applicant (for all designated States except US): **CONSORZIO POLITECNICO INNOVAZIONE** [IT/IT]; Via Fucini, 2, I-20133 Milano (IT).

(72) Inventor; and

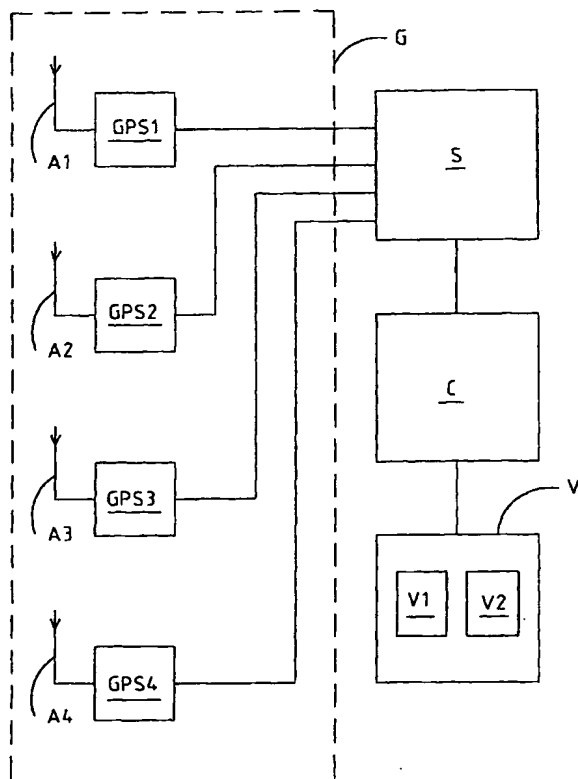
(75) Inventor/Applicant (for US only): **BARAZZETTI, Alessandro** [IT/IT]; Via Magenta, 21, 22100 Como (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AIRCRAFT GPS INSTRUMENTATION SYSTEM AND RELATIVE METHOD



(57) Abstract: The present invention refers to an instrumentation system of an aircraft by means of GPS (Global Positioning System). In particular, it refers to a modular instrumentation system for aircraft, preferably airplanes, based on the GPS, and to the relative method. In one embodiment the modular instrumentation system for aircraft comprises: four antennas (A1-A4) connected to four GPS receivers (GPS1-GPS4) that supply in output the attitude data and the angular velocities; a data acquisition card (S, C) that receives, memorizes and processes said attitude data and said angular velocities coming from said data acquisition card (S, C) and supplies data relating to the board instruments of an aircraft; visualization means (V) of said data relating to the board instruments.